

A PUBLICATION OF THE UNIVERSITY OF MASSACHUSETTS LOWELL

Once Again, Capt. McCune Answers the Call

It was 9:30 in the morning and Police Capt. John McCune was standing in the Lovejoy lot on the South Campus talking with Institutional Security Officer Nick Demogenes about a parking complaint.

"Captain," Demogenes said, "did you hear about the plane hitting the tower?"

That was when McCune first learned about the two hijacked planes that crashed into the World Trade Center towers in New York on Sept. 11 last year. He would be thinking of little else for the following 12 months.

"I came back to the North Campus and was called to (Dean of Students) Ellen Duggan's office to discuss security," McCune says. "Then, at 10:45 I received a call from the Pentagon asking me to report to Washington, D.C., by 0600 the next day."

McCune is a chief warrant officer in the Army Reserve, assigned as the team leader and special agent-in-charge of worldwide protective services missions for the 701st Protective Unit working out of the Pentagon.

"I finished work that day, went home and packed my bags and left."

He would be gone for more than a year. During that time he was able to return to his Wilmington home twice to see his wife, Stephanie, and their children—Christopher, 16, and Samantha, 6. Each visit was for only 24 hours. Stephanie traveled to Washington to see him once—for 18 hours.

McCune was first assigned to the Washington area protective team for Army Secretary Thomas E. White. Early this year he was named personal security officer for Deputy Defense Secretary Paul Wolfowitz.

The Wolfowitz assignment took him, over the next eight months, to a number of the world's hot spots, including Afghanistan, Bosnia, Egypt, Sinai and Turkey.

"Afghanistan was horrible," he says. "Living conditions were terrible. The American Embassy in Kabul was in shambles. Bullet holes were everywhere. Tank shells had exploded and hit the building.

"And Bosnia was tense. There were mines everywhere. It was



▲ University Police Capt. John McCune, left, spent much of the last year assigned to an international protection team for Deputy Defense Secretary Paul Wolfowitz. His assignment took him from the Pentagon in Washington to the hot spots of the Middle East.

extremely dangerous."

One of the more hair-raising experiences he relates was making "combat landings" with Wolfowitz in Bagram and Mazar-e Sharif in Afghanistan. Because of the danger of potential enemy missile attacks in those places, their Air Force plane would approach the landing area by nose-diving directly toward the

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UMass Lowell Program Ranked in Top Tier

UMass Lowell was named as one of nine schools demonstrating "the most highly institutionalized approach to outreach and community partnerships overall" by the U.S. Department of Housing and Urban Development (HUD).

The accolade appeared in HUD's June 2002 final report, "Lessons from the Community Outreach Partnership Center Program," and was based largely on the achievements of the University in the City Scholars program developed by the Center for Family, Work and Community.

Through this program, the University provides funding each year for 10 faculty members to support urban revitalization through innovations in curriculum, commu-

nity-based research, or outreach and technical assistance. Scholars have come from many disciplines, including English, health and clinical sciences, business, engineering and psychology.

UMass Lowell's new Department of Regional Economic and Social Development was also cited, as well as the Chancellor's clear articulation of the University's mission to support the social and economic development of the region, with an emphasis on sustainability.

HUD analyzed 14 factors—such as mission, faculty involvement and curriculum—in ranking the programs and drawing lessons from the experiences of the grantees. HUD considers that university engagement in

communities is inherently challenging to the institutions. Effective partnerships demand time and effort, and a sustained commitment to community-based academic work requires significant changes in the culture of universities.

Besides UMass Lowell, other schools with a "high level of integration of community engagement in their academic and administrative practices and policies were the Pratt Institute, Santa Ana Community College, Trinity College, University of Delaware, University of Pennsylvania, University of Illinois at Chicago, and Virginia Commonwealth University. Yale University was also mentioned.

—SS

Howard Zinn Presents His Historical Perspective on War

Howard Zinn returned to his professorial roots last month, when he provided a history lesson to more than 200 UMass Lowell students and faculty as he made his case against war.

Zinn, a former professor and current author who has evolved into a nationally known expert on politics and foreign policy, spoke on "Terrorism and War: Iraq, the U.S. and the World." He led the standing room-only crowd through the history of U.S. foreign policy over the past 200 years, as he stressed the need to examine the past in order to understand the present.

He claimed that often, under the guise of the spread of democracy, the United States has embarked on wars to expand its geographical power base, to topple regimes that pose a threat to U.S. businesses or, particularly in the Middle East, to gain control over oil-rich territories.

"Knowing history cannot give you a definite answer ... what the truth is about the situation today. But it can make you skeptical," he said. "If you don't know history, it's as if you were born yesterday."

Despite having been a U.S. Air Force bomber pilot during World War II, Zinn has since determined that no conflict represents a "pure war." He said the argument that there is a "clear and present danger" with Saddam Hussein, when it is uncertain whether the Iraqi leader possesses the nuclear or biological weapons which many other countries have, is more a future anticipation of danger.

"War does not solve fundamental problems, even though it seems to. War is a quick fix. It's like a drug," he said. "War kills a lot of people. When you bomb, the killing of innocent people is inevitable."

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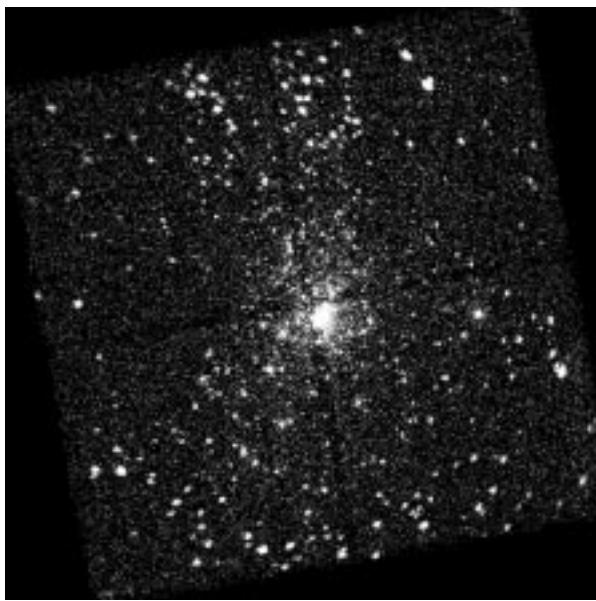
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Take Note

The Best Telescope in the World is out of this World

Exploding stars, colliding galaxies and black holes—all have been made visible with remarkable images from the Chandra X-Ray Observatory, launched in 1999 and considered the best telescope in the world. Chandra's still and moving images not only provide insights into "what's out there," from the formation of neutron stars to matter falling into a black hole, but they are also incredibly beautiful.

Dr. Harvey Tananbaum, co-creator of the Chandra and director of the Chandra X-Ray Center of the Harvard-Smithsonian Center for Astrophysics, will speak on campus



▲ About a thousand X-ray emitting young stars in the Orion Nebula star cluster are shown in this image made by the Chandra X-Ray Observatory. Chandra co-creator Dr. Harvey Tananbaum will speak about his work at the next Biological Sciences Seminar.

Dec. 4, in Olsen 503, at 4 p.m. His presentation is part of the Biological Sciences Seminar Series and is supported by the College of Arts and Sciences Alumni Advisory Board.

Tripathy Colloquium Stretches Knowledge of Materials

The second annual Sukant Tripathy Memorial Symposium will be held on Dec. 6 in the MIL Conference Room at Wannalancit Mills, 8:30 a.m. to 4:30 p.m. Researchers from universities and industry will present and discuss their latest research activities in materials science, with a student poster session held during the lunch break.

The symposium is held annually in honor of the late Prof. Tripathy, renowned researcher and director of the Center for Advanced Materials and former University provost and vice chancellor. The technical papers (including poster presentations) of the symposium will be published as a special issue of the *Journal of Macromolecular Science*. For more information or to register, contact Michele Vercellin at Michele_Vercellin@uml.edu or (978) 934-3695.

Art Exhibit Features Design Proposals for 9/11 Project

The University community will get its first look at several proposed models for a commemorative for UMass Lowell-related persons who lost their lives on 9/11. A reception for the Art Department exhibit is scheduled for its opening on Wednesday, Nov. 20 at 2 p.m. in the Dugan Gallery, Dugan Hall, on South Campus.

Working with Prof. Jim Coates, six student teams created designs for a space for meditation and reflection on the Merrimack River overlook along the Riverwalk behind Leitch Hall on the North Campus. The final design might include a sculptural object, stonework, seating, new plantings, lighting, or other elements, all combined to make a place for contemplation and remembrance. The vista offers an impressive view of the river as well as the most historic buildings on the North Campus.

Included as a permanent element at the site will be the names of Douglas Gowell '71; Robert Hayes '87; Brian Kinney '95; John Ogonowski '72; Patrick

Quigley, husband of Patricia A. Fleming Quigley '86; Jessica Sachs, daughter of Stephen R. and Karen D. Sachs, both graduates of the class of '69; and Christopher Zarba.

In December a committee with student, faculty, administration, alumni, and community representatives will select one design from the six proposals. The committee includes Lowell National Historical Park Superintendent Patrick McCrary, who played a key role in the development of the Oklahoma City memorial and served as an advisor for the 9/11 memorial in Pennsylvania. The plan is to complete the work this coming spring and dedicate the site in May.

The exhibit is on view through Dec. 11; gallery hours are Monday through Thursday, 9 a.m. to 3 p.m. Funding for the exhibition and project is being provided by the Office of University Relations and Development and the UML Student Government Association. For more information, contact Paul Marion, community relations, at ext. 3107.



Eight Plus Five, Carry the One...

▲ The problems were way hard and the cheering section way loud at the annual Math Challenge for high school teams, hosted by the Mathematical Sciences Department. Lexington High School continued its record in first place, followed by Billerica High School, with Bishop Guertin of Nashua, N.H., making a strong showing in third. Fourteen communities fielded teams for the fast-paced, Jeopardy-style competition, which is sponsored by the Mathematical Sciences Department in collaboration with the Office of Admissions. Math Profs. Alan Doerr, left, and Guntram Mueller are shown here with coaches of the winning teams—Salett Rahman, of Lexington; Peter Champagne, of Bishop Guertin; and Debbie Biagiotti, of Billerica—along with Michael Belcher, associate director of admissions.

Boott Mills Architecture Forum to be Hosted by Cultural Studies

Professors from at least three universities, as well as an independent scholar and a representative of the Lowell National Historic Park, will take part in an art history symposium, sponsored by the UMass Lowell Department of Cultural Studies, at Boott Cotton Mills Museum the afternoon of Friday, Dec. 6.

The program, which will begin at 1 p.m., will feature an address—"Architecture in Action: the Academical Village at the University of Virginia, 1826-1850"—by Marie Frank of the Cultural Studies Department. Other addresses, by speakers from Roger Williams University, Simmons College and the Lowell National Historic Park, will tackle subjects ranging from Greek Revival architecture in Rhode Island to early immigrant buildings in Lowell.

Opening and closing remarks will be made by Liana Cheney, chair of the Department of Cultural Studies.

CITA Conference Addresses Public Health

More than 100 academicians, researchers, professionals and public officials participated in this year's CITA Conference, "Approaches to Sustainable Development: Supporting Public Health and a Healthy Society." Twenty papers were presented during the two-day conference, which focused on ways to support public health and a healthy society.

Prof. David Ozonoff, outgoing chair of Boston University's Environmental Health Dept., was the keynote speaker. In Ozonoff's view, the state of public health has been in decline and disarray for quite a while. He believes the main threat facing us today in regards to health is violence, especially its "political" form—war.

"We're in need of a moral vision," said Ozonoff, "that views the world



▲ Psychology Prof. Meg Bond, left, and Jennifer Gooch, a graduate student in community psychology, presented a paper at this year's CITA Conference entitled, "Workplace Diversity: A Case Study from the Manufacturing Sector."

not as many families, but as one human family."

The conference concluded with a review of important findings among the presenters and suggestions for how universities can have a greater positive influence on sustaining a healthy society.



▲ Regional Economic and Social Development Profs. Bob Forrant, Linda Silka and John Wooding, from left, were co-chairs of the CITA Conference in November.



▲ Prof. David Ozonoff, outgoing chair of Boston University's Environmental Health Dept., presented the keynote address at this year's CITA Conference.

Tendler Examines the 'Devil's Deal'

Judith Tendler, professor of urban studies and planning at MIT, presented a talk entitled "Small Firms, the Informal Sector, and the Devil's Deal" for the Fall Seminar. She has been studying the role of policy and public institutions in determining which sectors or firms fair better in northeast Brazil. The Fall Seminar was sponsored by the Regional Economic and Social Development Department and the Center for Industrial Competitiveness



Symposium Deconstructs American Architecture

Scholars in art history and architecture will participate in a symposium Dec. 6 to explore innovations in regional American architecture. The symposium, which is open to everyone, will be held in Boot Cotton Mills Museum in Lowell.

According to Prof. Liana Cheney, chair of the University's new Cultural Studies Department and symposium coordinator, the gathering will both highlight course offerings in art history at the University and the varied architectural styles found in the city of Lowell.

The symposium is being sponsored by the Art History Club, the UMass Lowell Bookstore, student government and the Lowell National Historical Park. For registration information, contact Cheney, ext. 3495.

Conversation Dinner Features TLT President



▲ Steve Gilbert, second from left, president of the TLT (Teaching, Learning and Technology) Group of Washington, D.C., was the featured speaker at last month's Conversation Dinner sponsored by the Council on Teaching, Learning and Research as Scholarship. With Gilbert are, from left, Prof. Adam Karakashian of physics, moderator; Mary Beaudry, director of the Faculty Teaching Center; Mike Lucas, coordinator of Distance Learning and co-chair of the Teaching with Technology Task Force; Assoc. Prof. Marlowe Miller of the English Department, and co-chair of the Enrichment Task Force; and Provost Robert Wagner. Gilbert's topic was "Teaching with Technology: Something for Everyone."



Project Splash "ZOOMs" into Spotlight

▲ Rogers Middle School students who participate in the Splash after-school program weigh a tilapia fish while James Field, a producer of WGBH's ZOOM program, looks on. Field was investigating Splash to potentially include a student on a future episode of ZOOM. Splash, coordinated by the Center for Family, Work and Community's Cheryl West, introduces students to fish farming.

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Once Again, Capt. McCune Answers the Call

ground from 35,000 feet, pulling out of the plummeting descent at the last moment to make the landing.

McCune says the vast majority of troops in Afghanistan and Bosnia are from the Reserve or National Guard and, he says, "These people are first class. They take things seriously. If they didn't, people would lose their lives. I have all the admiration in the world for them. They're away from their families. They're in a dangerous situation. And no one back here knows that."

When he wasn't traveling, McCune was in the Washington area, providing protection at various times for Wolfowitz, Defense Secretary Donald Rumsfeld, or one of the five Chiefs of Staff.

Mostly, however, he accompanied Wolfowitz, whose workdays often

began at 6 a.m. and ended well after midnight. Much of the time was spent in the West Wing of the White House.

This was not the first time that McCune has been activated. A couple of years ago he was part of a team that went to Hanoi to provide security during a visit by then Defense Secretary William Cohen.

His most recent tour of duty was completed Oct. 2, but that may not be the end of it.

"Unfortunately, if something happens," McCune says, "I would expect to be called back. I have enough time in service to retire. But for anyone whose job is considered critical, there is something called a 'stop loss.' That means you can't get out. I have one of those critical jobs."

—JMcD

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Howard Zinn Presents His Historical Perspective on War

"When you go to war, whether you understand this consciously or not ... you are making an assumption that the people you are going to go to war against don't have an equal right to life as your people do," he added.

Zinn has written more than 20 books, numerous essays and several plays that have been translated into more than a dozen languages, including "A People's History of the United States." He was a professor at Spelman College from 1956 to 1963 and at Boston University from 1964 to 1988.

His talk, presented by the UMass Lowell Peace and Conflict Studies Institute, was sponsored by the departments of sociology, history, political science and regional

economic and social development; and the Committee on Industrial Theory and Assessment.

—PMcC



▲ Howard Zinn, right, nationally known expert on politics and foreign policy, recently spoke to more than 200 faculty and students on campus. Organizers of the event included, left, sociology Prof. Daniel Egan and Rev. Imogene Stulken, campus minister.

Worms Find New Home on South

The worms were the only ones not celebrating. Wriggled deep into a heap of clippings, leaves, and vegetable scraps, they ignored the speeches, ribbon-cutting and applause. They failed to appreciate the neat chain-link fence, raised beds of fall flowers and brand-new sign reading, "Compost Education and Demonstration Site."

They even passed on the hot cider.

But the red wigglers were still the center of attention as vermicomposting on the Lowell campus marked a new phase of development—the first outdoor, scaled-up composting site.

A neglected corner of the Riverside parking lot on South was refurbished for the site by staff from Physical Plant and the Office of Economic Development. The grounds crew have committed to providing

yard waste and Aramark Food Services will provide pre-consumer food scraps. The site can handle up to 500 yards of material a year, yielding a loamy, odorless fertilizer in a process that is speeded up by the worms.



▲ Cutting the ribbon at the new compost education and demonstration site on South are, from left, Christopher Monti, director of Aramark; Julie Villareal, asst. project manager at the Center for Family, Work and Community (CFWC); Mayor Rita Mercier, city of Lowell; and David Turcotte, project manager, CFWC.

UMass Lowell Start-Up Stars at Industry Breakfast

AnVil, Inc. is a bioinformatics company that started with UMass Lowell intellectual property, got the help of UMass Lowell scientists and students, and received \$100,000 in UMass Lowell seed money.

As the company expects revenue to grow from \$3 million to \$14 million this year, AnVil hopes to return the favor.

Commercial venture partnerships are part of the academic landscape these days and a University of Massachusetts breakfast for industry leaders of biotechnology and pharmaceutical companies spread the word: UMass has high quality research activity. Sponsored research at the University totaled more than \$150 million last year, and the system ranked 21st in the

nation in technology licensing.

The focus of the breakfast was research in the life sciences: biology, chemistry and molecular informatics.

"A university is defined by what it chooses to teach and chooses to study, and the University of Massachusetts seeks to be defined as a leader in the life sciences," UMass President William Bulger said.

Speakers at the event included UMass Lowell Profs. Kathleen Doyle, of health and clinical sciences, and Georges Grinstein, of computer science. Doyle spoke about education in the life sciences at UMass and related workforce issues. Grinstein described his research and its contribution to the development of AnVil.

WEB UPDATE

Three New Academic Sites Launched

Gender studies, biological sciences and physics all have a new look online created by Web Office Designer Ferney Lopez. The recently launched sites feature clear navigation, bold colors and appealing graphics.

Visit the new sites at: www.uml.edu/genderstudies (moved from www.uml.edu/misc/gender_studies), www.uml.edu/biology, and www.uml.edu/physics.

Some 40 Companies Participate in Job Fair

Career Services Director Pat Yates, right, confers with a representative of Investors Bank and Trust at the Career Fair held on campus last month. Yates says that, because today's economic climate has affected job market opportunities, students are working harder at honing their job-hunting skills. More than 40 companies participated in this fall's fair.



"Bots" for Teachers at Workshop

When is the last time someone invited you out to play—and then provided lots of neat stuff for that very purpose?

More than 30 teachers enjoyed a Saturday of instructive play recently, courtesy of Holly Yanco and Fred Martin, assistant professors in computer science, assisted by colleagues from Wellesley College and Worcester State.

The workshop was a hands-on invitation to experiment with building robots, using a variety of craft materials and two different

methods of programming. Creative contraptions included a robotic snake and a miniature carousel.

"We wanted to introduce robotics technology that they could use in the classroom," said Yanco, "and also to get them interested in doing more with robotics, perhaps coaching a team for the Botball tournament in the spring."

The workshop participants ranged from fourth-grade to high school teachers who attended from Massachusetts, Rhode Island and New Hampshire.



Networking for Quality in Qualitative Research

▲ The Halloween costume was incidental to the date and not the subject matter of the meeting as Asst. Prof. Craig Slatin of health and clinical sciences and director of the Center for Public Health Research and Health Promotion, third from right, convened a meeting of the Qualitative Research Network (QRN) at UMass Lowell. The purpose of their first meeting was to discover which academic disciplines are involved in qualitative research projects and what research designs and methods are being used. Joining Slatin are the QRN organizers: from left, Robin Toof, assistant director of the Center for Family, Work and Community (CFWC); Assoc. Prof. Joyce Gibson, of education and co-director of CFWC; Assoc. Prof. Barbara Mawn, of nursing; and Darcie Boyer and Beth Wilson, both students of regional economic and social development. More than 30 faculty and students attended, and agreed to meet again on Thursday, Dec. 19, at noon, the location to be announced.



Pierro Credits Tough Pros for Success

▲ Trying to explain difficult lab assignments that didn't work was excellent preparation for the real world—where things often don't work at first, said Rick Pierro, MS '83, at a recent presentation of the Senior Executive Forum for engineering and management students and faculty. Pierro is the president and co-founder of Superior Controls in Plaistow, N.H., a company that develops automation systems for biotech and chemical plants. Shown here with two of the professors whose tough assignments made starting his own company seem like a reasonable undertaking, Pierro, center, catches up with chemical engineering Profs. John Walkinshaw, left, and Chair Albert Donatelli.

UMass Lowell Engineering Professor, Five Others, Are Honored with Presidential Award

Electrical and Computer Engineering Prof. Donn Clark was named recently by UMass President William M. Bulger as one of six faculty winners, university-wide, of the President's Public Service Award.

The other five recipients, one each from the UMass campuses at Boston, Dartmouth and Worcester, and two from the Amherst campus, reflected faculty contributions in areas that range from fishing to information technology. The work for which Prof. Clark was honored was his contribution, through the assistive technology program, to "engaging students in the design and construction of technological devices that assist individuals with disabilities."



▲ Prof. Donn Clark

"Each of today's award recipients has a lifetime of achievement worthy of honor," Pres. Bulger told the audience at the Oct. 22 award presentations. "These achievements have had a profound impact on the Commonwealth and its people."

The Public Service Awards are presented annually to faculty members who have assisted in

"addressing a priority need" of the state of Massachusetts. This year, particular attention was given to those who have been involved in public service that has engaged students and thereby enriched the undergraduate learning experience.

Forrant, Pyle Edit Volume on University Role in Development

Prof. Bob Forrant and Prof. Emerita Jean L. Pyle, both of the Department of Regional Economic and Social Development (RES), have co-edited a collection of articles entitled *Globalization, Universities and Sustainable Human Development*. RES will host a book signing to mark the occasion on Dec. 5 from 3 to 5 p.m. in 500M O'Leary.

The many researchers represented in the book raise a number of timely questions. In particular, they ask, Given the fast-changing global economy and the challenges it presents, what is the proper role for the university as an institution in promoting sustainable human development? Pyle and Forrant begin by analyzing the constraints universities face in industrialized

and developing countries in this effort, providing a context for the chapters that follow.

Contributing writers represent a number of disciplines: well-known development economist Paul Streeten, Program Director Cathy Crumbley and Research Professor Joel Tickner of the UMass Lowell Center for Sustainable Production, Prof. Linda Silka of RES and the UMass Lowell Center for Family, Work and Community, and Jamuna Ramakrishna of the India Regional Office of the Humanist Institute for Cooperation with Developing Countries. A short version of the book appeared as an article in the September 2002 issue of the journal *development*.

The Shuttle is published by the Publications Office, UMass Lowell, One University Avenue, Lowell, MA 01854. Tel. 934-3223.

Vice Chancellor for University Relations and Development: Dr. Frederick P. Sperounis

Executive Director of Communications and Marketing: Christine Dunlap

Editor: Mary Lou Hubbell

Staff Writers: Geoffrey Douglas, Paul Marion, Jack McDonough

Other Writers:
Renae Lias Claffey
Elizabeth James
Elaine Keough
Ken Lyons
Patti McCafferty
Sandra Seitz
Rick Sherburne

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Levine Recognized for Peacemaking

The Cambridge Peace Commission is one of the things that makes Cambridge, Mass., "Cambridge" in the eyes of the nation. Its founders gathered recently to mark the agency's twentieth anniversary. Mark D. Levine, director of community service, was among



▲ Mark Levine, director of community service, left, with former Cambridge City Councilor Frank Duehay rallied at the Capitol Building in Washington D.C. in 1983 as part of the Citizens Lobby for a Nuclear Weapons Freeze.

several persons honored by the commission, which addresses local and global conflict resolution through municipal government.

In 1982, the Federal Emergency Management Agency sent the City of Cambridge's government an evacuation program calling for the city to evacuate one hundred miles west to Greenfield in the event of a nuclear threat from the Soviets. City officials and citizenry developed an educational program presenting the nuclear threat. Its centerpiece was the booklet *Cambridge and Nuclear War*. Levine conceived of and played a central role in establishing the municipal agency, then called the Cambridge Commission on Nuclear Disarmament and Peace Education, still unique in the nation. Past commissioners recently recalled the agency's achievements, ranging from establishing pertinent sister cities and Cambridge as a Sanctuary City, holding peace camps, addressing city inter-group tensions, developing peace curricula in the public schools and more.

A second twentieth anniversary occurred a week before the Peace Commission celebration: the visit of Levine's peace colleague of the early 1980's, Tadatoshi Akiba, now Mayor of Hiroshima, on a week's tour reminding municipal U.S. officials of the lessons of the atomic bomb blast of 1945.

"Mayor Akiba has always stressed the message of the Hibakusha, the civilian survivors of the blast whom he presents as heroic, which is that this must never happen again," said Levine. In 1982, Levine helped edit Akiba's book on the atomic bomb experience, *The Meaning of Survival*, and helped Akiba interpret this experience locally while Levine was organizing the peace commission. Levine noted that, along with organizing a model community crime watch in Cambridge, he then had material and insights for a Ph.D. dissertation in community/clinical psychology, which he finished in 1985. Though the dissertation dealt broadly with the "re-creation of community," the nuclear disarmament

organizing has turned out to be central.

"These were the root experiences that later produced the Office of Community Service at the University. In today's volatile world, what could be more pertinent?" Levine asked.

Mayor Akiba has invited Dr. Levine to work on a curriculum on the Hiroshima-Nagasaki a-bomb experience for dissemination to classrooms worldwide. This spring, Levine will teach a course on world peace and conflict resolution in community service through the Sociology Department. Looking back on the period of the founding of the Peace Commission, he warns, "the similarities to the present seem to be written in bold."

For over 100 years, UMass Lowell has been making a positive difference in the region, through the education, research, and outreach of the institution. The many people who work on the campus also make a positive difference in the University community, as shown in this series, "UMass Lowell in the Community."

Nadeau Explains How Somalis are Changing Maine



▲ Phil Nadeau, right, assistant city administrator, Lewiston, Maine, recently spoke at the latest installment of the Fall Seminar about the profound changes occurring in Lewiston as a result of an emerging Somali community. The series is sponsored by the Center for Industrial Competitiveness (CIC), the Department of Regional Economic and Social Development and the Lowell Center for Sustainable Development. Nadeau is pictured with Bill Mass, CIC co-director and seminar host.



Congressman Meehan Speaks on Campus

▲ U.S. Rep. Marty Meehan, center, reminisces with his former political science professors Nick Minton, left, and Fred Lewis during a recent visit to campus. Meehan, a 1978 graduate, spoke to students and faculty about current issues, including his recently passed campaign finance reform legislation and the situation with Iraq. Since being elected to Congress 10 years ago, Meehan has returned annually to campus to speak to students at Lewis's request.

Note Worthy

Prof. Charles Thompson and Assoc. Prof. Kavitha Chandra and their students in the Center for Advanced Computation and Telecommunications were invited by AT&T and Lucent Technologies to participate in the Building a Network of Leaders conference held in Washington, D.C., last month.

Prof. Bodo Reinisch of the Environmental, Earth and Atmospheric Sciences Department and director of the Center for Atmospheric Research was elected international chair of the task group for the International Reference Ionosphere (IRI) at the World Space Congress in Houston last month.

The IRI group was formed 30 years ago by the Committee on Space Research (COSPAR) and the International Union of Radio Science to develop a data-driven empirical model of Earth's atmosphere. The model has many applications, including correcting ionosphere-induced errors for the Global Positioning Satellite (GPS).

COSPAR invited Reinisch to present a paper at the World Space

Congress on his IMAGE satellite observations of the plasmasphere. This part of space plasma adds about 5 percent to the GPS positioning errors and forms an important extension of the ionospheric model.

Prof. Dominick Sama of chemical engineering chaired a session on power plants earlier this year at the 15th International Conference on Efficiency, Costs, Optimization, Simulation and Environmental Impact of Energy Systems held in Berlin, Germany.

& Promotions Appointments

Appointments

Cori Loiacono, administrative assistant in the Graduate School of Education, from TURI.

Mark Scarbrough, technical assistant in the Research Foundation, from contract employee.

Research Notes

Boccia, Judith
\$100,000
City of Lowell—Lowell Public Schools
The Lowell Program
2002-2003

Boccia, Judith
\$228,829.67
City of Lowell-Lowell Public Schools
Professional Development Program and Lowell High Leadership

Bond, Meg
\$15,000
National Institute of Occupational Health & Safety
Address the Specific Barrier in the Psychosocial Environment

Braunhut, Susan J.
\$5,037
Triton Biosystems
Cell Culture

Braunhut, Susan J. and Marx, Kenneth
\$105,026
Aventis Pharmaceuticals
A Human Breast Cancer Cell Biosensor of Taxane Activity and Mechanism of Action

Cassell, Scott
\$33,752
SEAMASS
Proposal to SEAMASS for a Propane Tank Product Stewardship Action Plan

Cassell, Scott
\$5,000
METRO
Model State Electronics Product Stewardship Legislation

Cassell, Scott
\$306,733
US Environmental Protection Agency
Product Stewardship Stakeholder Dialogue on Industrial Smoke Detectors and Fixed Nuclear Gauges

Coulombe, Michael and Waldman, Jerry
\$48,793.80
M.I.T. Lincoln Fiscal Office
W-Band Radar Measurements of a Scale Model SPASE at 160 GHz

Chowdhury, Partha
\$90,000
Radiation Monitoring Devices, Inc.
A Novel Position Sensitive Detector for Nuclear Radiation

Golomb, Dan
\$206,290
US Department of Energy
Laboratory Investigations in Support of Carbon Dioxide-Limestone Sequestration in the Ocean—Application #2074

Kazmer, David
\$15,000
ThermoCeramiX, LLC
ThermoCeramiX technologies for application in plastics molding process

Kegel, Gunter and Montesalvo, Mary
\$42,515
Omnirel Corporation
Irradiation of Electronic Devices

Kumar, Jayant
\$20,000
Linden Photonics
Liquid Crystalline Polymers for Optoelectronic Packaging Applications

Lawton, Carl
\$74,065.74
Boston Life Sciences Inc.
Fermentation of rTropomin Periplasmic Production

MacDougall, John and Moss, Phillip
\$90,000
US Department of Housing and Urban Development
Community Development Work Study Program

Mass, William
\$59,917
Massachusetts Technology Collaborative
Needs Assessment for Training and Certification Within the Photovoltaic Industry

Nicolosi, Robert
\$19,551
American Emu Association
Dose Response Study of Refined Emu Oil (REO)

Nicolosi, Robert
\$280,000
Central Soya Company, Inc.
Effect of a Water-washed Soy Protein Concentrate on Blood Lipids in Moderately Hyperlipidemic Men and Women

Pearce, Carole
\$23,190
Home Health VNA, Hospice and Home Care
Rapid Response for Clients at Risk

Prasad, Kanti
\$40,000
Analog Devices
Microelectronics Center

Rogers, Eugene and Shea, Thomas B.
\$239,503
Alzheimer's Association
Homocysteine, Folate and Alzheimer's Neuropathology: Dietary Modulation of Genetic Predisposition to Alzheimer's Disease

Sandman, Daniel J.
\$5,000
Academy of Applied Science (REAP)
Research and Engineering Apprenticeship Program

Shea, Thomas B.
\$330,000
National Science Foundation
Regulation of Axonal Neurofilament Dynamics by Phosphorylation

Silka, Linda
\$50,000
Nellie Mae Foundation
Lowell Gear Up Sustainability Partnership

Silka, Linda and West, Cheryl
\$10,300
Rhode Island Department of Environmental Management
Regional Education Aquaculture Partnership (REAP)

Tamarin, Robert
\$100,000
Duke Energy Gas Transmission
Maritime Phase III / Algoquin Hub Line Project

Tilly, Chris
\$90,000
US Department of Housing and Urban Development
Community Development Work Study Program

Yanco, Holly
\$19,755
National Science Foundation
Student Travel to the AAAI Robot Competition and Exhibition



Olney EMS Team Receives Internal Audit Training

▲ The Toxics Use Reduction Institute (TURI) provided internal audit training for staff members on the Olney ISO 14001 environmental management system (EMS) team. The two-day course, instructed by Janet Clark and Pamela Eliason of TURI, will enable the team to conduct an internal audit of the Olney Building as a precursor to EMS certification. The course participants were Rich Lemoine, Environmental Health and Safety; Scott Gordon, a contractor who wrote the audit curriculum; Carole LeBlanc, TURI; Marian Flum, the New England Consortium; James Hall, Chemistry Department; Soonsil Lee, Work Environment graduate student; Felipe Nacimiento, TURI; Clark, TURI; Liz Harriman, TURI; Cathy Crumbley, Lowell Center for Sustainable Production; Solomon Jamina, Environmental Health and Safety; Mark Scarborough, TURI; Eliason, TURI; Peter Bergeron, Environmental Health and Safety; Jack Luskin, TURI; and Anne Berlin-Blackman, TURI.



Panel Discussion Offers Different Perspectives on Homelessness

▲ As part of Greater Lowell Hunger and Homelessness Week, UMass Lowell hosted a panel discussion, "Shelter in an Uncertain Economy." The panelists debunked myths about homelessness, discussed the importance of empathy and gave an overview of how the economy contributes to homelessness. Dr. Mark Levine, center, director of community service, moderated the discussion. The panelists gathered with Levine before the presentation, included from left, Deb Chausse, executive director, House of Hope; Mark Cote, executive director, Transitional Living Center; and Chris Tilly, professor, Regional Economic and Social Development Department; and Dick Mari, resident, Lowell Transitional Living Center.

Calendar of Events

Wednesday, Nov. 20

Exhibit Reception, Exhibit of proposals for UMass Lowell Commemorative Public Art Project, 2 to 4 p.m., Dugan Gallery. Exhibit runs through Dec. 11. For information, call (978) 934-3491.

Friday, Nov. 22

Conference, "Shrinking the World, Expanding Horizons," 11th Annual Massachusetts Council for International Education Conference, keynote speaker: Padraig O'Malley, UMass Boston McCormack Institute, 9:15 a.m. registration, Cumnock auditorium. For information, contact Laurie_Tirado@uml.edu or (978) 934-2921.

Monday, Nov. 25

Lecture, "Building Research Partnerships in Diverse Communities," by Prof. Linda Silka, noon, O'Leary Library, Room M, fifth floor. For information, call CIC/RESD (978) 934-2720 or 2900.

Performance, Faculty Performance Series, Wind Ensemble, David Martins, director, 7:30 p.m., Durgin Concert Hall. For information, call (978) 934-3850.

Sunday, Dec. 1

Men's Basketball, vs. Merrimack College, 4 p.m., Costello Gym. For information, call (978) 934-HAWK.

Monday, Dec. 2

Lecture, "Regions, Nations, and Globalization," by Prof. William Mass, noon, O'Leary Library, Room M, fifth floor. For information, call CIC/RESD (978) 934-2720 or 2900.

Performance, Faculty Performance Series, Mixed Chamber Ensemble, David Martins, director, 7:30 p.m., Fisher Recital Hall. For information, call (978) 934-3850.

Tuesday, Dec. 3

Performance, Faculty Performance Series, Small Jazz Ensemble, Walter Platt, director, 7:30 p.m., Durgin Concert Hall. For information, call (978) 934-3850.

Tuesday–Wednesday, Dec. 3 & 4

Performance, STARTS (Student and Teacher Arts) program, "David Parker: the Pied Piper of Sign," a musical performance with singing and sign language for school field trips, grades K-3, 9:30 and 11 a.m., Durgin Hall. Tickets \$5. For information and reservations, call the STARTS hotline (978) 934-4452.

Wednesday, Dec. 4

Performance, Faculty Performance Series, Chamber Orchestra, Kay George Roberts, director, 7:30 p.m., Fisher Recital Hall. For information, call (978) 934-3850.

Seminar, guest speaker Dr. Harvey Tananbaum, director of the Chandra X-Ray Observatory, Harvard-Smithsonian Center for Astrophysics, 4 to 5 p.m., Olsen 503. For information, call (978) 934-2876.

Thursday, Dec. 5

Book Signing, RESD Professors Bob Forrant and Jean L. Pyle, co-editors of Globalization, Universities and Sustainable Human Development, 3 to 5 p.m., O'Leary 500M. For information, call RESD (978) 934-2900.

Performance, Faculty Performance Series, Studio Orchestra, Walter Platt, director, 7:30 p.m., Durgin Concert Hall.

Thursday–Saturday, Dec. 5–8

Performance, Shakespeare's "Much Ado About Nothing," presented by student Off-Broadway Players, 8 p.m., Dec. 8 at 2 p.m., Mahoney Auditorium, admission \$6, students \$5, Dec. 5 student special \$1. For information contact (978) 934-5024 or visit www.uml.edu/student-groups/offbroadway.

Friday, Dec. 6

Symposium, Sukant Tripathy Memorial, speakers include Mark Green, Polytechnic University; Michael Rubner, MIT; Warren Herman, University of Maryland; Vaman Naik, University of Michigan; Anthony Giuseppi-Eli, Virginia Polytech; Mrinal Thakur, Auburn University; Russell Gaudiana, Konarka Technologies; 8:30 a.m. to 4:30 p.m., Wannalancit Conference Room, register by Nov. 23. For information, call (978) 934-3695.

Performance, STARTS (Student and Teacher Arts) program, "Sarah, Plain and Tall," performing arts for school field trips, grades 3-6, 9:30 and 11 a.m., Durgin Hall. Tickets \$5. For information and reservations, call the STARTS hotline (978) 934-4452.

Symposium, "Innovations in Regional American Architecture," featuring guest speakers Marie Frank, UMass Lowell; Susanne M. Olson, independent scholar; John Hendrix, Roger Williams University; Gray Fitzsimons, Lowell National Historical Park; Alicia Faxon, Simmons College; 1 to 4 p.m., Boott Cotton Mills Museum. For information, call (978) 934-3495.

Hockey, vs. St. Lawrence, 7 p.m., Tsongas Arena. For information, call (978) 934-HAWK.

Saturday, Dec. 7

Men's Basketball, vs. Bentley College, 4 p.m., Costello Gym. For information, call (978) 934-HAWK.

Hockey, vs. Clarkson, 7 p.m., Tsongas Arena. For information, call (978) 934-HAWK.

Sunday, Dec. 8

Performance, Faculty Performance Series, Seasonal Music of the Combined Choral Groups, Christopher McGahan, director, 8 p.m., Durgin Concert Hall. For information, call (978) 934-3850.

Monday, Dec. 9

Reception, "City Lives: Alumni of UMass Lowell," an exhibition of photographs and biographies of UML alumni living in Lowell, 6 to 8 p.m., Whistler House Museum, Parker Gallery. For information, call Diana Archibald (978) 934-4199.

Performance, Faculty Performance Series, Percussion Ensemble, Jeffrey Fischer, director, 7:30 p.m., Fisher Recital Hall. For information, call (978) 934-3850.

Wednesday, Dec. 11

Open Meeting Hours, Opportunity for faculty, staff and students to meet with William T. Hogan, Chancellor. Staff: 2 to 3 p.m.; Students: 3 to 4 p.m.; Faculty: 4 to 5 p.m. Trustees' Room, Cumnock Hall. For information, call the Chancellor's office (978) 934-2201.

Performance, Faculty Performance Series, Concert Band, Daniel Lutz, director, 7:30 p.m., Durgin Concert Hall. For information, call (978) 934-3850.

Friday, Dec. 13

Men's Basketball, vs. Adelphi University, 7 p.m., Costello Gym. For information, call (978) 934-HAWK.

Thursday, Dec. 14

Exhibit Reception, Senior Thesis Work in Fine Arts and Graphic Design, 2 to 5 p.m., Dugan and University galleries, McGauvran Student Center. Exhibit runs through Jan. 11. For information, call (978) 934-3491.

Sunday, Dec. 15

Performance, Discovery Series, "Christmas Time is Here," rhythm and brass, 2 and 4 p.m., Durgin Hall. Best for ages 6 and up. Tickets \$10, group discounts available. For information or tickets, call the Center for the Arts (978) 934-4444.

Monday, Dec. 16

Performance, STARTS program, "Rhythm and Brass," performing arts for school field trips, grades 3-6, 9:30 and 11 a.m., Durgin Hall. Tickets \$5. For information and reservations, call the STARTS hotline (978) 934-4452.

Friday, Jan. 3

Men's Basketball, vs. St. Michael's, 7:30 p.m., Costello Gym. For information, call (978) 934-HAWK.

Saturday, Jan. 4

Hockey, vs. Maine, 7 p.m., Tsongas Arena. For information, call (978) 934-HAWK.

Did you know...

that students attending UML predecessor the Normal School were required to wear either suits or full-length dresses with high-boned, lace collars?

For Extra Credit...

How did a typical day begin for Normal School students? It began with a reading from the Book of Psalms and a rendition of "Onward Christian Soldiers."



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